



Advanced Foil Lamination

Project Lead

Albany Research Center Albany, OR

Description

The objective of this research program is to develop micro-reactors for use in energy related applications. An example, of a potential energy related application for micro-reactor technology, is as reformers and/or hydrogen filters (separators) for fuel cells. Another example of a potential application is as recuperators, for advanced turbine designs. The specific research focuses on fabrication of micro-reactors via a process called lamination; the bonding of sequentially layered, precision machined foils or sheets. The aim of the research is to understand the influence of the design (the internal features, such as channels separated by fins) of the reactor on the bonding process. The program also addresses the influence of functional members, (such as a catalytic surface coatings on foils embedded within the reactor) on the manufacturing process.

Product Support Areas

Gasification Technologies	Combustion Technologies	Sequestration	Environmental & Water Resources	Advanced Turbine & Engines	Fuel Cells



Code: AMP-002

Contact Information

Richard Walters NETL Product Manager (541) 967-5873 walters@alrc.doe.gov David Alman NETL Project Manager (541) 967-5885 alman@alrc.doe.gov